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L1 ANSWER 1 OF 1 JAPIO (C) 2004 EPO on STN
TI MANUFACTURE OF PLYWOOD

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AN 1982-170701 JAPIO <<LOGINID::20040910>>
TI MANUFACTURE OF PLYWOOD
IN ICHIKAWA TOSHIHARU; YAMADA HIROSHI
PA AIKA KOGYO KK
PI ***JP----57170701*** A 19821021 Showa
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Core veneer sheet is coated with a primer compsn. contg. formaldehyde resin adhesive and a filler and contg. no hardener and then coated with a mixt. comprising a hardener for the primer compsn. and an initial adhesion promoting agent comprising predominantly a water-soluble polymer. The primed surfaces are laminated with a top and rear veneer sheets or intermediate veneer sheets.

In further detail the filler is typically wheat flour, soybean flour, inorganic filler, wood powder. The hardener is typically NH4Cl or HCl. The initial adhesion promoting agent is typically polyvinyl alcohol, methyl cellulose, carboxymethyl cellulose, hydroxyethyl cellulose, Na polyacrylate or polyethylene oxide. The primer compsn. is coated by a known sizing machine in an amt. of 250-350 g/sq.m. for the both surfaces and the mixt. is spray coated in an amt. of 0.3-9.0 g/sq.m. for the both surfaces.

The process reduces the pressing time and eliminates the viscosity increase of the primer compsn.

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L4 1 JP04063168/PN

=> d pa

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PA (MITK) MITSUI TOATSU CHEM INC

Ref 1 (JP)

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 04-063168
(43)Date of publication of application : 28.02.1992

(51)Int.CI.

B05D 1/02
B05D 7/24
B32B 7/12
B32B 21/08

(21)Application number : 02-169720

(71)Applicant : MITSUI TOATSU CHEM INC

(22)Date of filing : 29.06.1990

(72)Inventor : MORIMOTO KOJI
DOI KIYOTO
ITO TAKESHI
ITO ATSUSHI

(54) PRODUCTION OF LAMINATE

(57)Abstract:

PURPOSE: To obtain an applying and adhering system enabling adhesion even in the case of a very high curing rate of resin by using 1st and 2nd liq. resin compsns. which are cured by mixing and separately applying and sticking the compsns. to the same surface of a body to be adhered in a noncontact state.

CONSTITUTION: A polymethylene polyphenyl polyisocyanate resin compsn. (A) an a resin compsn. (B) obtd. by stirring and mixing 100 pts.wt. 'Polyol MN-700(R)' obtd. by addition-polymerizing propylene oxide to glycerol, 0.01-2 pts.wt. dibutyl tin dilaurate, 0.1-50 pts.wt. multifunctional mercaptan compd. and 0.1-3 pts.wt. diethyltoluene-diamine are alternately and linearly applied to the same surface of a veneer by 20g/ft² in such a weight ratio as to give 1 equiv. active hydrogen in the compsn. B to 1 equiv. NCO group in the compsn. A. Such veneers are superposed and pressed under 10kg/cm² pressure to produce three-ply plywood. The compsns. can be used without causing defective adhesion.

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PATENT ABSTRACTS OF JAPAN

(11) Publication number : 59-015472
 (43) Date of publication of application : 26.01.1984

(51) Int.CI.

C09J 5/00
 // B05D 7/24

(21) Application number : 57-126531

(71) Applicant : SUMITOMO CHEM CO LTD

(22) Date of filing : 19.07.1982

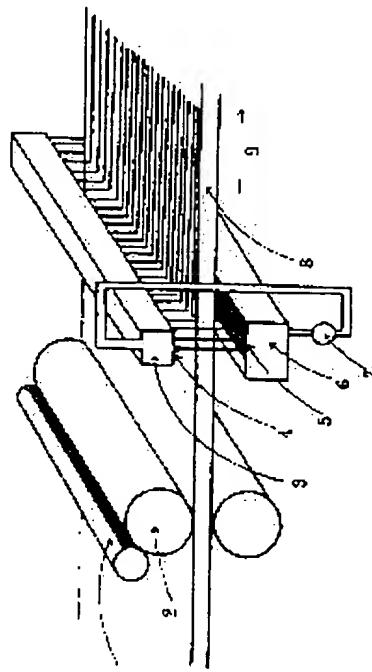
(72) Inventor : ISHIHARA TAKAMASA
 TSUKA HIROBUMI

(54) PREPARATION OF LAMINATED MATERIAL

(57) Abstract:

PURPOSE: To prepare laminated materials to technical advantage, by a process wherein either one of a chief material or hardener component of a thermosetting resin adhesive is applied onto the entire surface of an adherend and then the other component is applied in multiple lines onto the above coated surface, on top of which another adherend is laid and stuck to each other by press.

CONSTITUTION: Either one of a chief material or hardener component of a thermosetting resin adhesive is applied onto the entire surface of an adherend 8 by a rotating roll 2. The other component in a storage tank and a recovery tank 6 is fed into a vessel 3 by a press. pump 7 and applied from a discharge 4 onto the coated surface of said adherend 8 in string or thread forms. Another adherend is laid on top of the above adherend 8 and pressed to each other. As a result, one component applied onto the entire surface of adherend 8 and the other component applied onto the resulting surface in linear forms are mixed together to complete adhesion. According to this technique, washing becomes unnecessary and a continuous or intermittent operation for several days is possible. Application of the adhesive components is economical and easy to operate, and laminated materials are prep'd. to highly technical advantage.



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PATENT ABSTRACTS OF JAPAN

(11) Publication number : 60-190272
 (43) Date of publication of application : 27.09.1985

(51) Int.CI. B05D 7/24
 B05D 1/36

(21) Application number : 59-043949

(71) Applicant : HITACHI LTD

(22) Date of filing : 09.03.1984

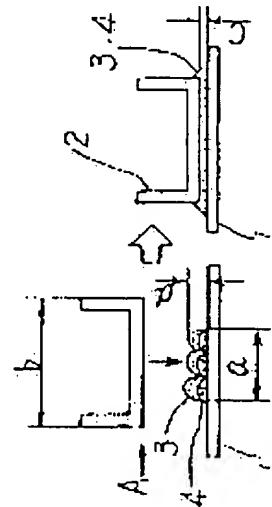
(72) Inventor : KIKUCHI SHIGEAKI
 KIKUSHIMA TOSHITSUGU

(54) ADHESIVE COATING METHOD

(57) Abstract:

PURPOSE: To perform the coating of two solutions at once so as to uniformize the mixing ratio of both solutions, in a method for coating a quick-curable type two-component liquid adhesive, by coating one solution so as to superpose the same to the other solution.

CONSTITUTION: When bodies 1, 2 to be adhered are adhered, adhesives 3, 4 are applied to the adhesive surface of the body 1 to be adhered so as to be superposed to each other. At this time, a coating width (a) is made smaller than an adhesive width (b) and, further, a height (d), when the adhesives are coated, is made larger than the thickness (c) of the adhesive layer when the bodies 1, 2 to be adhered are laminated. In this case, if the adhesives are applied so as to be spread over the whole of the adhesive surface when both bodies 1, 2 to be adhered are laminated, the flow of the adhesives 3, 4 becomes active and a good mixing state is obtained.



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